## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018157

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> B23K26/06			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> B23K26/06, H01S3/042, H01S5/022			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2005 Kokai Jitsuyo Shinan Koho 1971–2005 Toroku Jitsuyo Shinan Koho 1994–2005			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-118319 A (Litton Syst 19 April, 2002 (19.04.02), Detailed Explanation of the In Par. Nos. [0033] to [0047]; F. & EP 1180836 A2	nvention;	1-3
. Y	JP 2003-158315 A (Miyachi Technos Corp.), 30 May, 2003 (30.05.03), Detailed Explanation of the Invention; Par. Nos. [0004], [0008], [0015] to [0050]; Figs. 1 to 6 (Family: none)		1-3
Y	<pre>JP 5-245675 A (Hoya Corp.), 24 September, 1993 (24.09.93) Full text; Figs. 1 to 5 (Family: none)</pre>	,	3
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:  "T" later document published after the international filing date or pridate and not in conflict with the application but cited to understart to be of particular relevance  to be of particular relevance  "T" later document published after the international filing date or pridate and not in conflict with the application but cited to understart the principle or theory underlying the invention		ation but cited to understand	
filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
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Date of the actual completion of the international search 04 March, 2005 (04.03.05)		Date of mailing of the international search report 22 March, 2005 (22.03.05)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	